

We claim:

1. A compound of formula I,



wherein:

- R^0 is
- 1) a monocyclic or bicyclic 5- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 ; or
 - 2) a monocyclic or bicyclic 5- to 14-membered heteroaryl, containing zero, one, two, three or four heteroatoms chosen from nitrogen, sulphur or oxygen, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 ;

R^2 is halogen, $-\text{NO}_2$, $-\text{CN}$, $-\text{C}(\text{O})-\text{NH}_2$, $-\text{OH}$, $-\text{NH}_2$, $-\text{NH}-\text{C}(\text{O})$, $-\text{NH}-\text{C}(\text{O})-(\text{C}_1-\text{C}_8)\text{-alkyl}$; $-\text{NH}-\text{C}(\text{O})-(\text{C}_1-\text{C}_8)\text{-alkyl}$; $-(\text{C}_1-\text{C}_8)\text{-alkyl}$; wherein alkyl in each case is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, NH_2 , $-\text{OH}$ or a methoxy residue; or $-(\text{C}_1-\text{C}_8)\text{-alkyloxy}$, wherein alkyloxy is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, NH_2 , $-\text{OH}$ or a methoxy residue;

Q and Q' are independently of one another identical or different, and are a direct bond; $-(\text{CH}_2)_r\text{-O-CH}_2)_s-$, wherein r and s are independently from each other the integers zero, 1, 2 or 3; $-\text{C}(\text{O})-$; $-\text{O}-$; $-\text{NR}^{10}-$; $-\text{C}(\text{O})-\text{NR}^{10}-$; $-\text{NR}^{10}-\text{C}(\text{O})-$; $-\text{S}-$; $-\text{S}(\text{O})-$; $-\text{SO}_2-$; $-\text{NR}^{10}-\text{SO}_2-$; $-\text{SO}_2-\text{NR}^{10}-$; $-(\text{C}_1-\text{C}_6)\text{-alkylene}$, wherein alkylene is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, NH_2 or $-\text{OH}$; or $-(\text{C}_3-\text{C}_6)\text{-cycloalkylene}$, wherein cycloalkylene is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $-\text{NH}_2$ or $-\text{OH}$;

X is a direct bond; a 3- to 7-membered heteroaryl; $-(\text{C}_1-\text{C}_6)\text{-alkylene}$, wherein alkylene is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $-\text{NH}_2$ or $-\text{OH}$; or $-(\text{C}_3-\text{C}_6)\text{-cycloalkylene}$, wherein cycloalkylene is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $-\text{NH}_2$ or $-\text{OH}$;

provided that when Q or Q' is $-(\text{C}_1-\text{C}_6)\text{-alkylene}$, then X is $-\text{O}-$, $-\text{S}-$, $-\text{NR}^{10}-$, $-\text{C}(\text{O})-$, $-\text{C}(\text{O})-\text{NR}^{10}-$,

-NR¹⁰-C(O)-, -S(O)-, -SO₂-, -NR¹⁰-SO₂- or -SO₂-NR¹⁰-; with the proviso that if X is a direct bond, the fragment -Q-X-Q'- is not O-O, O-S, S-O, S-S, SO₂-SO₂, SO-SO, SO-SO₂, SO₂-SO, SO₂-S, S-SO₂, SO-S, S-SO; with the proviso that if X is oxygen atom or sulphur atom, then Q and Q' are not oxygen atom or sulphur atom; and with the further proviso that if X is S(O) or SO₂, then Q and Q' are not oxygen atom or sulphur atom;

- W is
- 1) a 5- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹,
 - 2) a 5- to 14-membered heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹,
 - 3) a 4- to 15 membered mono- or polycyclic group, wherein said mono- or polycyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹, or
 - 4) a 4- to 15 membered mono- or polycyclic group, containing one, two, three or four heteroatoms, such as nitrogen, sulphur or oxygen, wherein said mono- or polycyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹,

provided that if W is a six membered aryl or heteroaryl group, then Q' and U are not in an ortho position with respect to each other;

- R¹ is
- 1) halogen,
 - 2) -NO₂,
 - 3) -CN,
 - 4) -NR⁴R⁵, wherein R⁴ and R⁵ are defined below,
 - 5) -O-(C₁-C₈)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 6) -OH,
 - 7) -SO₂-NH₂,
 - 8) (C₁-C₈)-alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 9) (C₆-C₁₄)-aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 10) (C₁-C₈)-alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

- 11) hydroxycarbonyl-(C₁-C₈)-alkylureido-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 12) (C₁-C₈)-alkyloxycarbonyl-(C₁-C₈)-alkylureido-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 13) (C₁-C₈)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 14) -NH-C(O),
- 15) -NH-C(O)-(C₁-C₈)-alkyl,
- 16) -NH-C(O)-(C₁-C₈)-alkyl,
- 17) -C(O)-NR⁴R⁵, wherein R⁴ and R⁵ are defined below,
- 18) -COOH;
- 19) -C(O)-(C₁-C₆)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 20) -C(O)-O-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 21) -C(O)-NR¹¹R¹²,
- 22) -C(NH)-NH₂,
- 23) -NH-C(O)-NH₂,
- 24) -S-(C₁-C₈)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 25) -(C₁-C₈)-alkylthio, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, or
- 26) R¹¹R¹²N-, or
- 27) two R¹ residues bonded to adjacent ring carbon atoms together with the carbon atoms to which they are bonded form a dioxalane ring or an aromatic ring condensed to W, where the ring formed by the two R¹ residues is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³;

R¹¹ and R¹² together with the nitrogen atom to which they are bonded form a saturated or unsaturated 5- to 6-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R¹¹ and R¹², contains one or two identical or different ring

heteroatoms chosen from oxygen, sulphur and nitrogen, and in which one or two of the ring carbon atoms can be substituted by oxygen to form one or more -C(O)-residues,

R¹³ is halogen, -NO₂, -CN, -OH, -(C₁-C₈)-alkyl, -(C₁-C₈)-alkyloxy, -CF₃, -C(O)-NH₂, -NH₂ or the residue V-G-M, wherein V, G and M are as defined below,

R¹⁰ is hydrogen atom or -(C₁-C₄)-alkyl,

U and G are independently of one another identical or different and are a direct bond,

-(CH₂)_m-, -(CH₂)_m-O-(CH₂)_n-, -(CH₂)_m-C(O)-NR¹⁰-(CH₂)_n-, -(CH₂)_m-SO₂-(CH₂)_n-,
-(CH₂)_m-NR¹⁰-C(O)-NR¹⁰-(CH₂)_n-, -(CH₂)_m-NR¹⁰-C(O)-(CH₂)_n-, -(CH₂)_m-S-(CH₂)_n-,
-(CH₂)_m-C(O)-(CH₂)_n-, -(CH₂)_m-SO₂-NR¹⁰-(CH₂)_n-, -(CH₂)_m-NR¹⁰-SO₂-(CH₂)_n-,
-(CH₂)_m-NR¹⁰-SO₂-NR¹⁰-(CH₂)_n-, -(CH₂)_m-CH(OH)-(CH₂)_n-,
-(CH₂)_m-O-C(O)-NR¹⁰-(CH₂)_n- or -(CH₂)_m-NR¹⁰-C(O)-O-(CH₂)_n-,

n and m are independently of one another identical or different and are the integers zero, 1, 2, 3, 4, 5 or 6, wherein the alkylene residues that are formed by -(CH₂)_m- or -(CH₂)_n- are unsubstituted or mono-, di- or trisubstituted independently of one another by -(C₁-C₄)-alkyl, -C(O)-OH, -C(O)-O-(C₁-C₄)-alkyl, -C(O)-NR⁴R⁵, -SO₂, -NR⁴R⁵, or -(C₁-C₈)-alkylsulfonyl,

R⁴ and R⁵ are independently of one another identical or different and are hydrogen atom, -(C₁-C₈)-alkyl, wherein alkyl is unsubstituted or mono-, di- or tri-substituted independently of one another by R¹³, -(C₆-C₁₄)-aryl-(C₁-C₄)-alkyl-, wherein alkyl and aryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R¹³, -(C₆-C₁₄)-aryl-, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -(C₆-C₁₄)-heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³ or -(C₆-C₁₄)-heteroaryl-(C₁-C₄)-alkyl-, wherein alkyl and heteroaryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R¹³, or R⁴ and R⁵ together with the nitrogen atom to which they are bonded form a saturated 5-to 7-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R⁴ and R⁵, can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen; wherein said heterocyclic ring is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

- V is
- 1) a direct bond,
 - 2) $-(C_1-C_6)$ -alkylene, which is branched or unbranched and which is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $=O$, $-CN$, $-OH$, $-NR^4R^5$, $-C(O)-OH$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-SO_2-NR^4R^5$, $-C(O)-NR^4R^5$ or $-(C_1-C_8)$ -alkylsulfonyl,
 - 3) a 3- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 4) a 6- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
 - 5) a heteroaryl, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

R^{14} is R^1 , halogen, $-OH$, $-NR^4R^5$, $=O$, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-NO_2$, $-C(O)-OH$, $-CN$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-O$ -heteroaryl, $-NR^{10}-C(O)-NH-(C_1-C_8)$ -alkyl, $-NR^{10}-C(O)-NH-[(C_1-C_8)\text{-alkyl}]_2$, $-SO_2-NR^4R^5$, $-SR^4$, or $-SO_2$, wherein R^4 , R^5 and R^{10} are as defined above, and

- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_8)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) $-(C_6-C_{14})$ -aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 5) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 6) a 3- to 7-membered cyclic group, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 7) a 3- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , wherein R^{14} is defined above,

- 8) $\text{-NH-CH}(\text{NA}^1)(\text{NA}^2)$, wherein A^1 and A^2 are independently of one another identical or different and are hydrogen atom or $\text{-(C}_1\text{-C}_8\text{)-alkyl}$, or A^1 and A^2 together with the nitrogen atom to which they are each bonded form a saturated 5- or 6-membered monocyclic heterocyclic ring, which is saturated or aromatic, or
- 9) $\text{-CH}(\text{NA}^1)(\text{NA}^2)$, wherein A^1 and A^2 are independently of one another identical or different and are hydrogen atom or $\text{-(C}_1\text{-C}_8\text{)-alkyl}$, or A^2 together with the nitrogen atom to which it is bonded forms a saturated 5- or 6-membered monocyclic heterocyclic ring, which contains 2 nitrogen atoms and is saturated or aromatic,

and all stereoisomeric forms and mixtures thereof in any ratio, all polymorphic forms and mixtures thereof in any ratio, and all physiologically tolerable salts thereof.

2. The compound of claim 1, wherein

R^0 is phenyl, wherein phenyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 ,
 pyridyl, wherein pyridyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 ,
 pyrimidyl, wherein pyrimidyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 , or
 naphthyl, wherein naphthyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 ,

R^2 is as defined in claim 1, wherein the alkyl- or alkyloxy residue is unsubstituted or mono-, di- or trisubstituted independently of one another by an amino residue or a methoxy residue,

Q and Q' are as defined in claim 1, wherein the alkylene- or cycloalkylene residue is unsubstituted or mono-, di- or trisubstituted independently of one another by -NH_2 or -OH ;

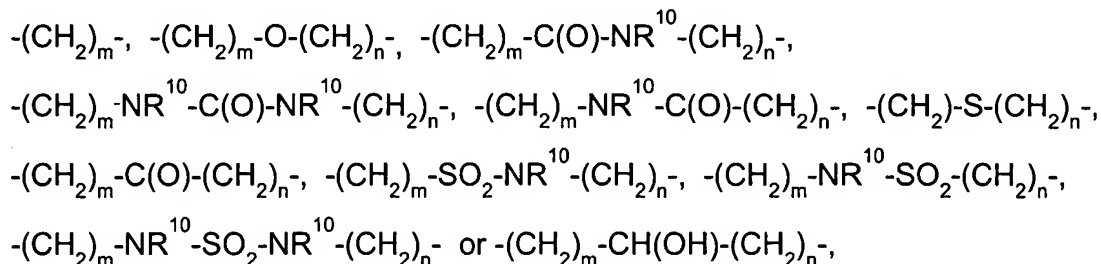
X is as defined in claim 1,

W is phenyl, pyridyl, pyrimidyl, benzoxazole, benzthiazole, indole, benzo[1,3]dioxole, or naphthyl, wherein W is unsubstituted or mono-, di- or trisubstituted independently of one another by R^1 ,

provided that if W is a six membered aryl or heteroaryl group, Q' and U are not in an ortho position with respect to each other;

R¹, R¹⁰, R¹¹, R¹² and R¹³ are as defined in claim 1,

U and G are independently of one another identical or different and are a direct bond,



wherein n, m, R⁴ and R⁵ are as defined in claim 1, and

V and M are as defined in claim 1.

3. The compound of claim 1, wherein

R⁰ is phenyl, wherein phenyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R²,

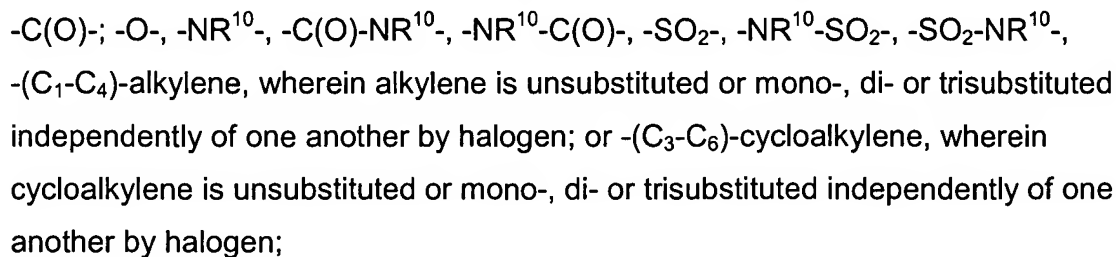
pyridyl, wherein pyridyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R²,

pyrimidyl, wherein pyrimidyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R², or

naphthyl, wherein naphthyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R²,

R² is halogen, -CN, -NH₂, -C(O)-NH₂, -(C₁-C₄)-alkyl, or -(C₁-C₄)-alkyloxy, wherein the alkyl- or alkyloxy residue is unsubstituted or mono-, di- or trisubstituted independently of one another by an amino residue or a methoxy residue,

Q and Q' are independently of one another identical or different and are a direct bond,



X is a direct bond, -(C₁-C₃)-alkylene, wherein alkylene is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen; or

-(C₃-C₆)-cycloalkylene, wherein cycloalkylene is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen;
provided that when Q or Q' is -(C₁-C₃)-alkylene then X is -O-, -NR¹⁰-, -C(O)-, -C(O)-NR¹⁰-, -NR¹⁰-C(O)-, -SO₂-, -NR¹⁰-SO₂- or -SO₂-NR¹⁰-;
with the proviso that if X is a direct bond, the fragment -Q -X- Q'- is not O-O, SO₂-SO₂, or SO-SO₂; and
with the proviso that if X is oxygen atom, then Q and Q' are not oxygen atom or sulphur atom; and
with the further proviso that if X is SO₂, then Q and Q' are not oxygen atom or sulphur atom;
W is phenyl, pyridyl, pyrimidyl, benzoxazole, benzthiazole, indole, benzo[1,3]dioxole, or naphthyl, wherein W is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹,
provided that if W is a six membered aryl or heteroaryl group, Q' and U are not in an ortho position with respect to each other;

- R¹ is
- 1) halogen,
 - 2) -NO₂,
 - 3) -CN,
 - 4) -NH₂,
 - 5) (C₁-C₆)-alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 6) -OH,
 - 7) -SO₂-NH₂,
 - 8) (C₁-C₆)-alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 9) (C₆-C₁₄)-aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 10) (C₁-C₆)-alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 11) hydroxycarbonyl-(C₁-C₆)-alkylureido-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

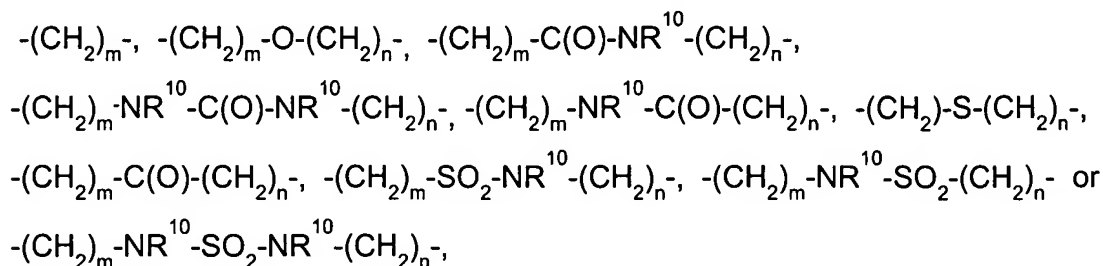
- 12) (C₁-C₆)-alkyloxycarbonyl-(C₁-C₆)-alkylureido-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 13) (C₁-C₆)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 14) bis[(C₁-C₆)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 15) -C(O)-NH₂,
- 16) -C(O)-OH,
- 17) -C(O)-(C₁-C₆)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 18) -C(O)-NH-(C₁-C₆)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 19) -C(O)-NH-[(C₁-C₆)-alkyl]₂, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 20) -C(NH)-NH₂,
- 21) ureido,
- 22) -(C₁-C₆)-alkylthio, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, or
- 23) R¹¹R¹²N-, or
- 24) two R¹ residues bonded to adjacent ring carbon atoms together with the carbon atoms to which they are bonded form an aromatic ring condensed to W, where the ring formed by the two R¹ residues is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

R¹¹ and R¹² together with the nitrogen atom to which they are bonded form a saturated or unsaturated 5- to 6-membered monocyclic heterocyclic ring which in addition to the nitrogen atom carrying R¹¹ and R¹² can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen, and in which one or two of the ring carbon atoms can be substituted by oxygen to form -C(O)- residue(s),

R¹³ is halogen, -CN, -(C₁-C₆)-alkyl, -(C₁-C₆)-alkyloxy, -CF₃, -C(O)-NH₂ or -NH₂,

R¹⁰ is hydrogen atom or -(C₁-C₄)-alkyl,

U and G are independently of one another identical or different and are a direct bond,



n and m are independently of one another identical or different and are the integers zero, 1, 2 or 3, wherein the alkylene residues are unsubstituted or mono-, di- or trisubstituted independently of one another by $-(\text{C}_1-\text{C}_4)\text{-alkyl}$; $-\text{C}(\text{O})-\text{OH}$, $-\text{C}(\text{O})-\text{O}-(\text{C}_1-\text{C}_4)\text{-alkyl}$, $-\text{C}(\text{O})-\text{NR}^4\text{R}^5$, $-\text{SO}_2$, $-\text{NR}^4\text{R}^5$ or $-(\text{C}_1-\text{C}_8)\text{-alkylsulfonyl}$,

R^4 and R^5 are independently of one another identical or different and are hydrogen atom, $-(\text{C}_1-\text{C}_6)\text{-alkyl}$, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-aryl}-(\text{C}_1-\text{C}_4)\text{-alkyl}$ -, wherein alkyl and aryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-aryl}$ -, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-heteroaryl}$, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} or $-(\text{C}_6-\text{C}_{14})\text{-heteroaryl}-(\text{C}_1-\text{C}_4)\text{-alkyl}$ -, wherein alkyl and heteroaryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , or R^4 and R^5 together with the nitrogen atom to which they are bonded form a saturated 5- to 7-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R^4 and R^5 , can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen; wherein said heterocyclic ring is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

- V is
- 1) a direct bond,
 - 2) $-(\text{C}_1-\text{C}_4)\text{-alkylene}$, which is branched or unbranched and which is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $=\text{O}$, $-\text{CN}$, $-\text{OH}$, $-\text{NR}^4\text{R}^5$, $-\text{C}(\text{O})-\text{OH}$, $-\text{C}(\text{O})-\text{O}-(\text{C}_1-\text{C}_4)\text{-alkyl}$, $-\text{SO}_2$, $-\text{NR}^4\text{R}^5$, $-\text{C}(\text{O})-\text{NR}^4\text{R}^5$ or $-(\text{C}_1-\text{C}_8)\text{-alkylsulfonyl}$,
 - 3) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is

unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

- 4) a 6- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
- 5) a heteroaryl, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

R^{14} is halogen, -OH, $-NR^4R^5$, =O, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-NO_2$, $-C(O)-OH$, -CN, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NR^4R^5$, $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)$ -alkyl]₂, $-NR^{10}-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH_2$ or $-NR^{10}-C(O)-NH-[(C_1-C_8)$ -alkyl]₂, wherein R^4 , R^5 and R^{10} are as defined above, and

- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_8)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) $-(C_6-C_{14})$ -aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 5) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 6) a 5- to 7-membered cyclic group, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
 - 7) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , wherein R^{14} is defined above.

4. The compound of claim 1, wherein

R^0 is phenyl, wherein phenyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 , or
pyridyl, wherein pyridyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^2 ,

R^2 is halogen, $-CN$, $-C(O)-NH_2$, $-(C_1-C_4)$ -alkyl, or $-(C_1-C_4)$ -alkyloxy, wherein the alkyl- or alkyloxy residue is unsubstituted or mono-, di- or trisubstituted independently of one another by an amino residue or a methoxy residue,

Q and Q' are independently of one another identical or different and are a direct bond, $-C(O)-$; $-O-$, $-NR^{10}$, $-C(O)-NR^{10}$, $-NR^{10}-C(O)-$, $-SO_2-$, $-NR^{10}-SO_2-$, $-SO_2-NR^{10}$, or $-(C_1-C_4)$ -alkylene,

X is a direct bond or $-(C_1-C_3)$ -alkylene,

provided that when Q or Q' is $-(C_1-C_3)$ -alkylene then X is $-O-$, $-NR^{10}$, $-C(O)-$, $-C(O)-NR^{10}$, $-NR^{10}-C(O)-$, $-SO_2-$, $-NR^{10}-SO_2-$ or $-SO_2-NR^{10}$;

with the proviso that if X is a direct bond, the fragment $-Q-X-Q'$ is not $O-O$ or SO_2-SO_2 ;

and with the proviso that if X is oxygen atom, then Q and Q' are not oxygen atom or sulphur atom;

and with the further proviso that if X is SO_2 , then Q and Q' are not oxygen atom or sulphur atom;

W is phenyl, pyridyl or pyrimidyl, wherein W is unsubstituted or mono-, di- or trisubstituted independently of one another by R^1 ,

provided that Q' and U are not in an ortho position with respect to each other;

- R^1 is
- 1) halogen,
 - 2) $-NO_2$,
 - 3) $-CN$,
 - 4) $-NH_2$,
 - 5) (C_1-C_4) -alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,
 - 6) $-OH$,
 - 7) $-SO_2-NH_2$,
 - 8) (C_1-C_4) -alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,
 - 9) (C_6-C_{14}) -aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,
 - 10) (C_1-C_4) -alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

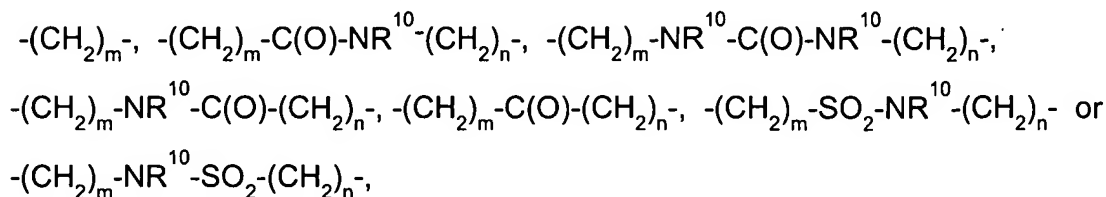
- 11) hydroxycarbonyl-(C₁-C₄)-alkylureido-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 12) (C₁-C₄)-alkyloxycarbonyl-(C₁-C₄)-alkylureido-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 13) (C₁-C₄)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 14) bis[(C₁-C₄)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 15) -C(O)-NH₂,
- 16) -C(O)-OH,
- 17) -C(O)-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 18) -C(O)-NH-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 19) -C(O)-NH-[(C₁-C₄)-alkyl]₂, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 20) -C(NH)-NH₂,
- 21) ureido,
- 22) -(C₁-C₄)-alkylthio, wherein alkylthio is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, or
- 23) R¹¹R¹²N-, or
- 24) two R¹ residues bonded to adjacent ring carbon atoms together with the carbon atoms to which they are bonded form an aromatic ring condensed to W, where the ring formed by the two R¹ residues is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

R¹¹ and R¹² together with the nitrogen atom to which they are bonded form a saturated or unsaturated 5- to 6-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R¹¹ and R¹², can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen,

R¹³ is halogen, -CN, -(C₁-C₄)-alkyl, -(C₁-C₄)-alkyloxy, -CF₃, -C(O)-NH₂ or -NH₂,

R¹⁰ is hydrogen atom or -(C₁-C₄)-alkyl,

U and G are independently of one another identical or different and are a direct bond,



n and m are independently of one another identical or different and are the integers zero, 1, 2 or 3, wherein the alkylene residues are unsubstituted or mono-, di- or trisubstituted independently of one another by $-(\text{C}_1-\text{C}_4)\text{-alkyl}$; $-\text{C}(\text{O})-\text{OH}$, $-\text{C}(\text{O})-\text{O}-(\text{C}_1-\text{C}_4)\text{-alkyl}$ or $-\text{C}(\text{O})-\text{NR}^4\text{R}^5$,

R^4 and R^5 are independently of one another identical or different and are hydrogen atom, $-(\text{C}_1-\text{C}_6)\text{-alkyl}$, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-aryl}-(\text{C}_1-\text{C}_4)\text{-alkyl}$ -, wherein alkyl and aryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-aryl}$ -, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-heteroaryl}$ -, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} or $-(\text{C}_6-\text{C}_{14})\text{-heteroaryl}-(\text{C}_1-\text{C}_4)\text{-alkyl}$ -, wherein alkyl and heteroaryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , or R^4 and R^5 together with the nitrogen atom to which they are bonded form a saturated 5- to 7-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R^4 and R^5 , can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen; wherein said heterocyclic ring is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

- V is
- 1) a direct bond,
 - 2) $-(\text{C}_1-\text{C}_4)\text{-alkylene}$, which is branched or unbranched and which is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $=\text{O}$, $-\text{CN}$, $-\text{OH}$, $-\text{NR}^4\text{R}^5$, $-\text{C}(\text{O})-\text{OH}$, $-\text{C}(\text{O})-\text{O}-(\text{C}_1-\text{C}_4)\text{-alkyl}$, $-\text{SO}_2-\text{NR}^4\text{R}^5$, $-\text{C}(\text{O})-\text{NR}^4\text{R}^5$ or $-(\text{C}_1-\text{C}_4)\text{-alkylsulfonyl}$,
 - 3) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is

unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

- 4) a 6- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
- 5) a 6- to 14-membered heteroaryl, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

R^{14} is halogen, -OH, $-NR^4R^5$, =O, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-NO_2$, $-C(O)-OH$, $-CN$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NR^4R^5$, $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)\text{-alkyl}]_2$, $-NR^{10}-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH_2$ or $-NR^{10}-C(O)-NH-[(C_1-C_8)\text{-alkyl}]_2$, wherein R^4 , R^5 and R^{10} are as defined above, and

- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_8)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) $-(C_6-C_{14})$ -aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 5) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 6) a 5- to 7-membered cyclic group, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
 - 7) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , wherein R^{14} is defined above.

5. The compound of claim 1, wherein

R^0 is phenyl, wherein phenyl is unsubstituted or mono- or disubstituted independently of one another by R^2 , or
pyridyl, wherein pyridyl is unsubstituted or mono-, disubstituted independently of one another by R^2 ,

R^2 is halogen, -CN, -C(O)-NH₂, -(C₁-C₃)-alkyl, or -(C₁-C₃)-alkyloxy, wherein the alkyl- or alkyloxy residue is unsubstituted or mono-, di- or trisubstituted independently of one another by an amino residue or a methoxy residue,

Q and Q' are independently of one another identical or different and are a direct bond, -C(O)-; -O-, -NR¹⁰-, -C(O)-NR¹⁰-, -NR¹⁰-C(O)-, -SO₂-, -NR¹⁰-SO₂-, -SO₂-NR¹⁰-, or -(C₁-C₄)-alkylene,

X is a direct bond or -(C₁-C₃)-alkylene,

provided that when Q or Q' is -(C₁-C₃)-alkylene then X is -O-, -NR¹⁰-, -C(O)-, -C(O)-NR¹⁰-, -NR¹⁰-C(O)-, -SO₂-, -NR¹⁰-SO₂- or -SO₂-NR¹⁰-;

with the proviso that if X is a direct bond, the fragment -Q -X- Q'- is not O-O or SO₂-SO₂;

and with the proviso that if X is oxygen atom, then Q and Q' are not oxygen atom or sulphur atom; and

with the further proviso that if X is SO₂, then Q and Q' are not oxygen atom or sulphur atom;

W is phenyl, pyridyl or pyrimidyl, wherein W is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹,

provided that Q' and U are not in an ortho position with respect to each other;

- R¹ is
- 1) halogen,
 - 2) -NO₂,
 - 3) -CN,
 - 4) -NH₂,
 - 5) (C₁-C₄)-alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 6) -OH,
 - 7) -SO₂-NH₂,
 - 8) (C₁-C₄)-alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 9) (C₆-C₁₄)-aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 10) (C₁-C₄)-alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 11) (C₁-C₄)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

- 12) bis [(C₁-C₄)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 13) -C(O)-NH₂,
- 14) -C(O)-OH,
- 15) -C(O)-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 16) -C(O)-NH-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 17) -C(O)-NH-[(C₁-C₄)-alkyl]₂, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 18) -C(NH)-NH₂,
- 19) ureido,
- 20) -(C₁-C₄)-alkylthio, wherein alkylthio is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, or
- 21) R¹¹R¹²N-, or
- 22) two R¹ residues bonded to adjacent ring carbon atoms together with the carbon atoms to which they are bonded form an aromatic ring condensed to W, where the ring formed by the two R¹ residues is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,

R¹¹ and R¹² together with the nitrogen atom to which they are bonded form a saturated or unsaturated 5- to 6-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R¹¹ and R¹², can contain one or two identical or different ring heteroatoms chosen from oxygen or nitrogen,

R¹³ is halogen, -CN, -(C₁-C₄)-alkyl, -(C₁-C₄)-alkyloxy, -CF₃, -C(O)-NH₂ or -NH₂,

R¹⁰ is hydrogen atom or -(C₁-C₄)-alkyl,

U is a direct bond, -(CH₂)_m-, -(CH₂)_m-C(O)-NR¹⁰-(CH₂)_n-, -(CH₂)_m-NR¹⁰-C(O)-(CH₂)_n-,
-(CH₂)_m-C(O)-(CH₂)_n-, -(CH₂)_m-SO₂-NR¹⁰-(CH₂)_n- or -(CH₂)_m-NR¹⁰-SO₂-(CH₂)_n-,

n and m are independently of one another identical or different and are the integers zero, 1, 2 or 3, wherein the alkylene residues are unsubstituted or mono-, di- or trisubstituted independently of one another by -(C₁-C₄)-alkyl; -C(O)-OH,
-C(O)-O-(C₁-C₄)-alkyl or -C(O)-NR⁴R⁵,

R^4 and R^5 are independently of one another identical or different and are hydrogen atom, $-(C_1-C_6)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -aryl- (C_1-C_4) -alkyl-, wherein alkyl and aryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , $-(C_6-C_{14})$ -aryl-, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} or $-(C_6-C_{14})$ -heteroaryl- (C_1-C_4) -alkyl-, wherein alkyl and heteroaryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , or R^4 and R^5 together with the nitrogen atom to which they are bonded form a saturated 5- to 7-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R^4 and R^5 , can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen; wherein said heterocyclic ring is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

G is a direct bond, $-(CH_2)_m-$, $-(CH_2)_m-O-(CH_2)_n-$, $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-C(O)-NR^{10}-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-C(O)-(CH_2)_n-$, $-(CH_2)_m-S-(CH_2)_n-$, $-(CH_2)_m-C(O)-(CH_2)_n-$, $-(CH_2)_m-SO_2-NR^{10}-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-SO_2-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-SO_2-NR^{10}-(CH_2)_n-$ or $-(CH_2)_m-SO_2-(CH_2)_n-$, wherein n, m, and R^{10} are as defined above

- V is
- 1) a direct bond,
 - 2) $-(C_1-C_4)$ -alkylene, which is branched or unbranched and which is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, =O, -CN, $-NR^4R^5$, $-C(O)-OH$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-SO_2-NR^4R^5$, $-C(O)-NR^4R^5$ or $-(C_1-C_4)$ -alkylsulfonyl,
 - 3) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 4) a 6- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or

- 5) a 6- to 14-membered heteroaryl, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 R^{14} is halogen, -OH, $-NR^4R^5$, =O, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-NO_2$, $-C(O)-OH$, $-CN$,
 $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NR^4R^5$,
 $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)$ -alkyl] $_2$,
 $-NR^{10}-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH_2$ or $-NR^{10}-C(O)-NH-[(C_1-C_8)$ -alkyl] $_2$, wherein
 R^4 , R^5 and R^{10} are as defined above, and
- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) $-(C_6-C_{14})$ -aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 5) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 6) a 5- to 7-membered cyclic group, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
 - 7) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , wherein R^{14} is defined above.
6. A compound of the formula I as claimed in one or more of claims 1 to 5, wherein
 R^0 is phenyl, wherein phenyl is unsubstituted or mono- or disubstituted independently of one another by R^2 , or
pyridyl, wherein pyridyl is unsubstituted or mono-, disubstituted independently of one another by R^2 ,
 R^2 is halogen, $-CN$, $-C(O)-NH_2$, $-(C_1-C_3)$ -alkyl, or $-(C_1-C_3)$ -alkyloxy, wherein the alkyl- or alkyloxy residue is unsubstituted or mono-, di- or trisubstituted independently of one another by an amino residue or a methoxy residue,

Q and Q' are independently of one another identical or different and are a direct bond,
-C(O)-; -O-, -NR¹⁰-, -C(O)-NR¹⁰-, -NR¹⁰-C(O)-, -SO₂-, -NR¹⁰-SO₂-, -SO₂-NR¹⁰-, or
-(C₁-C₄)-alkylene,

X is a direct bond or -(C₁-C₃)-alkylene,

provided that when Q or Q' is -(C₁-C₃)-alkyl then X is -O-, -NR¹⁰-, -C(O)-, -C(O)-NR¹⁰-,
-NR¹⁰-C(O)-, -SO₂-, -NR¹⁰-SO₂- or -SO₂-NR¹⁰-;

with the proviso that if X is a direct bond, the fragment -Q -X- Q'- is not O-O or SO₂-SO₂;

and with the proviso that if X is oxygen atom, then Q and Q' are not oxygen atom or sulphur atom; and

with the further proviso that if X is SO₂, then Q and Q' are not oxygen atom or sulphur atom;

W is phenyl or pyridyl, wherein W is unsubstituted or mono-, di- or trisubstituted
independently of one another by R¹,

provided that Q' and U are not in an ortho position with respect to each other;

- R¹ is
- 1) halogen,
 - 2) -NO₂,
 - 3) -CN,
 - 4) -NH₂,
 - 5) (C₁-C₄)-alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 6) -OH,
 - 7) -SO₂-NH₂,
 - 8) (C₁-C₄)-alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 9) (C₆-C₁₄)-aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 10) (C₁-C₄)-alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 11) (C₁-C₄)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 12) bis[(C₁-C₄)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
 - 13) -C(O)-NH₂,

- 14) $-\text{C}(\text{O})-\text{OH}$,
- 15) $-\text{C}(\text{O})-(\text{C}_1-\text{C}_4)\text{-alkyl}$, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,
- 16) $-\text{C}(\text{O})-\text{NH}-(\text{C}_1-\text{C}_4)\text{-alkyl}$, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,
- 17) $-\text{C}(\text{O})-\text{NH}-[(\text{C}_1-\text{C}_4)\text{-alkyl}]_2$, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,
- 18) $-\text{C}(\text{NH})-\text{NH}_2$,
- 19) ureido,
- 20) $-(\text{C}_1-\text{C}_4)\text{-alkylthio}$, wherein alkylthio is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , or
- 21) $\text{R}^{11}\text{R}^{12}\text{N-}$, or
- 22) two R^1 residues bonded to adjacent ring carbon atoms together with the carbon atoms to which they are bonded form an aromatic ring condensed to W, where the ring formed by the two R^1 residues is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

R^{11} and R^{12} together with the nitrogen atom to which they are bonded form a saturated or unsaturated 5- to 6-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R^{11} and R^{12} , can contain one or two identical or different ring heteroatoms chosen from oxygen or nitrogen,

R^{13} is halogen, $-\text{CN}$, $-(\text{C}_1-\text{C}_4)\text{-alkyl}$, $-(\text{C}_1-\text{C}_4)\text{-alkyloxy}$, $-\text{CF}_3$, $-\text{C}(\text{O})-\text{NH}_2$ or $-\text{NH}_2$,

R^{10} is hydrogen atom or $-(\text{C}_1-\text{C}_4)\text{-alkyl}$,

U is a direct bond, $-(\text{CH}_2)_m-$, $-(\text{CH}_2)_m-\text{C}(\text{O})-\text{NR}^{10}-(\text{CH}_2)_n-$, $-(\text{CH}_2)_m-\text{NR}^{10}-\text{C}(\text{O})-(\text{CH}_2)_n-$,
 $-(\text{CH}_2)_m-\text{C}(\text{O})-(\text{CH}_2)_n-$, $-(\text{CH}_2)_m-\text{SO}_2-\text{NR}^{10}-(\text{CH}_2)_n-$ or $-(\text{CH}_2)_m-\text{NR}^{10}-\text{SO}_2-(\text{CH}_2)_n-$,

n and m are independently of one another identical or different and are the integers zero, 1, 2 or 3, wherein the alkylene residues are unsubstituted or mono-, di- or trisubstituted independently of one another by $-(\text{C}_1-\text{C}_4)\text{-alkyl}$; $-\text{C}(\text{O})-\text{OH}$,
 $-\text{C}(\text{O})-\text{O}-(\text{C}_1-\text{C}_4)\text{-alkyl}$ or $-\text{C}(\text{O})-\text{NR}^4\text{R}^5$,

R^4 and R^5 are independently of one another identical or different and are hydrogen atom, $-(\text{C}_1-\text{C}_6)\text{-alkyl}$, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(\text{C}_6-\text{C}_{14})\text{-aryl}-(\text{C}_1-\text{C}_4)\text{-alkyl-}$, wherein alkyl and

aryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , $-(C_6-C_{14})$ -aryl-, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} or $-(C_6-C_{14})$ -heteroaryl- (C_1-C_4) -alkyl-, wherein alkyl and heteroaryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , or R^4 and R^5 together with the nitrogen atom to which they are bonded form a saturated 5- to 7-membered monocyclic heterocyclic ring which, in addition to the nitrogen atom carrying R^4 and R^5 , can contain one or two identical or different ring heteroatoms chosen from oxygen, sulphur and nitrogen; wherein said heterocyclic ring is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

G is a direct bond, $-(CH_2)_m-$, $-(CH_2)_m-O-(CH_2)_n-$, $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-C(O)-NR^{10}-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-C(O)-(CH_2)_n-$, $-(CH_2)_m-S-(CH_2)_n-$, $-(CH_2)_m-C(O)-(CH_2)_n-$, $-(CH_2)_m-SO_2-NR^{10}-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-SO_2-(CH_2)_n-$, $-(CH_2)_m-NR^{10}-SO_2-NR^{10}-(CH_2)_n-$ or $-(CH_2)_m-SO_2-(CH_2)_n-$, wherein n, m, and R^{10} are as defined above

- V is
- 1) a direct bond,
 - 2) $-(C_1-C_4)$ -alkylene, which is branched or unbranched and which is unsubstituted or mono-, di- or trisubstituted independently of one another by halogen, $=O$, $-CN$, $-NR^4R^5$, $-C(O)-OH$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-SO_2-NR^4R^5$, $-C(O)-NR^4R^5$ or $-(C_1-C_4)$ -alkylsulfonyl,
 - 3) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 4) a 6- to 14-membered aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
 - 5) a 6- to 14-membered heteroaryl, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

R^{14} is halogen, -OH, $-NR^4R^5$, =O, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-NO_2$, $-C(O)-OH$, $-CN$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NR^4R^5$, $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)-alkyl]_2$, $-NR^{10}-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH_2$ or $-NR^{10}-C(O)-NH-[(C_1-C_8)-alkyl]_2$, wherein R^4 , R^5 and R^{10} are as defined above, and

- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) $-(C_6-C_{14})$ -aryl, wherein aryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 5) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 6) a 5- to 7-membered cyclic group, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
 - 7) a 5- to 7-membered cyclic group, containing up to 1, 2, 3 or 4 heteroatoms chosen from nitrogen, sulphur or oxygen, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , wherein R^{14} is defined above.

7. The compound of claim 1, wherein

R^0 is $-(C_6-C_{14})$ -aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl and is unsubstituted or mono- or disubstituted independently of one another by R^2 , or $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine; 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, indole, isoindole, benzofuran, benzothiophene, 1,3-benzodioxole, indazole, chromane, benzimidazole, benzoxazole, benzothiazole, quinoline, isoquinoline, isochromane, cinnoline,

quinazoline, quinoxaline, phthalazine, pteridine pyridyl, pyridopyridines, pyridoimidazoles, pyridopyrimidines and purine and is unsubstituted or mono- or disubstituted independently of one another by R_2 ,

R^2 is halogen, -CN, -C(O)-NH₂, -(C₁-C₃)-alkyl, or -(C₁-C₃)-alkyloxy, wherein the alkyl- or alkyloxy residue is unsubstituted or mono-, di- or trisubstituted independently of one another by an amino residue or a methoxy residue,

Q is a direct bond,

Q' is -O-

X is -(C₁-C₃)-alkylene,

W is -(C₆-C₁₄)-aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl, or

-(C₆-C₁₄)-heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, indole, isoindole, benzofuran, benzothiophene, 1,3-benzodioxole, indazole, chromane, benzimidazole, benzoxazole, benzothiazole, quinoline, isoquinoline, isochromane, cinnoline, quinazoline, quinoxaline, phthalazine, pteridine pyridyl, pyridopyridines, pyridoimidazoles, pyridopyrimidines and purine, wherein W is unsubstituted or mono-, di- or trisubstituted independently of one another by R^1 ,

provided that Q' and U are in a 1,2- or 1,3- substitution relationship with respect to each other; and further provided that if Q' and U are in a 1,3- substitution relationship, the 2 position is unsubstituted;

R^1 is

- 1) halogen,
- 2) -NO₂,
- 3) -CN,
- 4) -NH₂,
- 5) (C₁-C₄)-alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

- 6) -OH,
- 7) -SO₂-NH₂,
- 8) (C₁-C₄)-alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 9) (C₆-C₁₄)-aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl, and is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 10) (C₁-C₄)-alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 11) (C₁-C₄)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 12) bis[(C₁-C₄)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 13) -C(O)-NH₂,
- 14) -C(O)-OH,
- 15) -C(O)-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 16) -C(O)-NH-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 17) -C(O)-NH-[(C₁-C₄)-alkyl]₂, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³,
- 18) -C(NH)-NH₂,
- 19) ureido,
- 20) -(C₁-C₄)-alkylthio, wherein alkylthio is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, or
- 21) R¹¹R¹²N-,

R¹¹ and R¹² together with the nitrogen atom to which they are bonded form a residue chosen from the group piperidine, morpholine, piperazine, thiomorpholine, pyrrolidine, pyrrolidinone, and ketopiperazine,

R¹³ is halogen, -CN, -(C₁-C₄)-alkyl, -(C₁-C₄)-alkyloxy, -CF₃, -C(O)-NH₂ or -NH₂,

R¹⁰ is hydrogen atom or -(C₁-C₄)-alkyl,

U is $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n-$, wherein n and m are independently of one another identical or different and are the integers zero, 1 or 2,

R^4 and R^5 are independently of one another identical or different and are hydrogen atom, $-(C_1-C_6)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -aryl- (C_1-C_4) -alkyl-, wherein aryl is as defined for W and alkyl and aryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , $-(C_6-C_{14})$ -aryl-, wherein aryl is as defined for W and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is as defined for W and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} or $-(C_6-C_{14})$ -heteroaryl- (C_1-C_4) -alkyl-, wherein heteroaryl is as defined for W and alkyl and heteroaryl independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , or

R^4 and R^5 together with the nitrogen atom to which they are bonded form a residue chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, and 1,4-diazepine, wherein said residue is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

G is a direct bond, $-(CH_2)_m$, $-(CH_2)_m-O-(CH_2)_n$, $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n$, $-(CH_2)_m-NR^{10}-C(O)-NR^{10}-(CH_2)_n$, $-(CH_2)_m-NR^{10}-C(O)-(CH_2)_n$, $-(CH_2)_m-C(O)-(CH_2)_n$, $-(CH_2)_m-SO_2-NR^{10}-(CH_2)_n$, $-(CH_2)_m-NR^{10}-SO_2-(CH_2)_n$, $-(CH_2)_m-SO_2-(CH_2)_n$ or $-(CH_2)_m-NR^{10}-SO_2-NR^{10}-(CH_2)_n$,

wherein n, m, and R^{10} are as defined above

V is

- 1) a 5- to 7-membered cyclic group chosen from the group pyrroline, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, dihydropyridine, tetrahydropyridine, piperidine, 1,3-dioxolane, 2-imidazoline, imidazolidine, 4,5-dihydro-1,3-oxazol, 1,3-oxazolidine, 4,5-dihydro-1,3-thiazole, 1,3-thiazolidine, perhydro-

1,4-dioxane, piperazine, perhydro-1,4-oxazine (morpholine), perhydro-1,4-thiazine (thiomorpholine), perhydroazepine, indoline, isoindoline, 1,2,3,4-tetrahydroquinoline, and 1,2,3,4-tetrahydroisoquinoline, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

- 2) $-(C_6-C_{14})$ -aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
- 3) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, indole, isoindole, benzofuran, benzothiophene, 1,3-benzodioxole, indazole, chromane, benzimidazole, benzoxazole, benzothiazole, quinoline, isoquinoline, isochromane, cinnoline, quinazoline, quinoxaline, phthalazine, pteridine, pyridyl, pyridopyridines, pyridoimidazoles, pyridopyrimidines and purine, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

R^{14} is halogen, $-OH$, $-NR^4R^5$, $=O$, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-NO_2$, $-C(O)-OH$, $-CN$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NH_2$, $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)$ -alkyl] $_2$, $-NR^{10}-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH_2$ or $-NR^{10}-C(O)-NH-[(C_1-C_8)$ -alkyl] $_2$, wherein R^4 , R^5 and R^{10} are as defined above, and

- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) a 5- to 7-membered cyclic group chosen from the group pyrroline, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, dihydropyridine, tetrahydropyridine, piperidine, 1,3-dioxolane, 2-imidazoline, imidazolidine, 4,5-dihydro-1,3-oxazol,

1,3-oxazolidine, 4,5-dihydro-1,3-thiazole, 1,3-thiazolidine, perhydro-1,4-dioxane, piperazine, perhydro-1,4-oxazine (morpholine), perhydro-1,4-thiazine (thiomorpholine), perhydroazepine, indoline, isoindoline, 1,2,3,4-tetrahydroquinoline, and 1,2,3,4-tetrahydroisoquinoline, wherein said cyclic group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

- 5) $-(C_6-C_{14})$ -aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
- 6) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, indole, isoindole, benzofuran, benzothiophene, 1,3-benzodioxole, indazole, chromane, benzimidazole, benzoxazole, benzothiazole, quinoline, isoquinoline, isochromane, cinnoline, quinazoline, quinoxaline, phthalazine, pteridine, pyridyl, pyridopyridines, pyridoimidazoles, pyridopyrimidines and purine, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

in all its stereoisomeric forms and mixtures thereof in any ratio, and its physiologically tolerable salts.

8. The compound of claim 1, wherein

R^0 is phenyl, wherein phenyl is unsubstituted or mono- or disubstituted independently of one another by R^2 , or

pyridyl, wherein pyridyl is unsubstituted or mono-, disubstituted independently of one another by R^2 ,

R^2 is halogen or -CN,

Q is a direct bond

Q' is -O-,

X is $-(C_1-C_3)$ -alkylene,

W is phenyl or pyridyl, wherein W is unsubstituted or mono-, di- or trisubstituted

independently of one another by R^1 ,

provided that Q' and U are in a 1,2- or 1,3- substitution relationship with respect to each other and the 2 position is unsubstituted;

R^1 is halogen, $-NO_2$, $-CN$, $-NH_2$, (C_1-C_4) -alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-OH$, $-SO_2-NH_2$, (C_1-C_4) -alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , (C_6-C_{14}) -aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , (C_1-C_4) -alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , (C_1-C_4) -alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , bis[(C_1-C_4)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-C(O)-NH_2$, $-C(O)-OH$, $-C(O)-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-C(O)-NH-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-C(O)-NH-[(C_1-C_4)$ -alkyl]₂, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-C(NH)-NH_2$, ureido, $-(C_1-C_4)$ -alkylthio, wherein alkylthio is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , or $R^{11}R^{12}N$,

R^{11} and R^{12} together with the nitrogen atom to which they are bonded form a residue chosen from the group piperidine, morpholine, piperazine, thiomorpholine, pyrrolidine, pyrrolidinone, and ketopiperazine,

R^{13} is halogen, $-CN$, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkyloxy, $-CF_3$, $-C(O)-NH_2$ or $-NH_2$,

R^{10} is hydrogen atom or methyl,

U is $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n$, wherein n is zero, 1 or 2, m is zero or 1,

R^4 and R^5 are independently of one another identical or different and are hydrogen atom, $-(C_1-C_6)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -phenyl- (C_1-C_4) -alkyl-, wherein alkyl and phenyl independently from one another are unsubstituted or mono-, di- or

trisubstituted by R^{13} , $-(C_6-C_{14})$ -phenyl-, wherein phenyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, and 1,4-diazepine and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} or $-(C_6-C_{14})$ -heteroaryl- (C_1-C_4) -alkyl-, wherein alkyl and heteroaryl are as defined above and independently from one another are unsubstituted or mono-, di- or trisubstituted by R^{13} , or

R^4 and R^5 together with the nitrogen atom to which they are bonded form a residue chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, and 1,4-diazepine, wherein said residue is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

G is a direct bond, $-(CH_2)_m$, $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n$, $-(CH_2)_m-NR^{10}-C(O)-NR^{10}-(CH_2)_n$, $-(CH_2)_m-NR^{10}-C(O)-(CH_2)_n$, $-(CH_2)_m-C(O)-(CH_2)_n$, $-(CH_2)_m-SO_2-NR^{10}-(CH_2)_n$, or $-(CH_2)_m-NR^{10}-SO_2-(CH_2)_n$

wherein n, m, and R^{10} are as defined above

V is

- 1) a 5- to 7-membered cyclic group chosen from the group pyrroline, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, dihydropyridine, tetrahydropyridine, piperidine, 1,3-dioxolane, 2-imidazoline, imidazolidine, 4,5-dihydro-1,3-oxazol, 1,3-oxazolidine, 4,5-dihydro-1,3-thiazole, 1,3-thiazolidine, perhydro-1,4-dioxane, piperazine, perhydro-1,4-oxazine (morpholine), perhydro-1,4-thiazine (thiomorpholine), perhydroazepine, indoline, isoindoline, 1,2,3,4-tetrahydroquinoline, and 1,2,3,4-tetrahydroisoquinoline, wherein said cyclic

group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

- 2) $-(C_6-C_{14})$ -aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
- 3) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, indole, isoindole, benzofuran, benzothiophene, 1,3-benzodioxole, indazole, chromane, benzimidazole, benzoxazole, benzothiazole, quinoline, isoquinoline, isochromane, cinnoline, quinazoline, quinoxaline, phthalazine, pteridine, pyridyl, pyridopyridines, pyridoimidazoles, pyridopyrimidines and purine, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

R^{14} is halogen, $-OH$, $-NR^4R^5$, $=O$, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-C(O)-OH$, $-CN$, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NH_2$, $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)\text{-alkyl}]_2$, wherein R^4 or R^5 are as defined above, and

- M is
- 1) a hydrogen atom,
 - 2) $-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
 - 3) $-C(O)-NR^4R^5$,
 - 4) a 5- to 7-membered cyclic group chosen from the group pyrroline, pyrrolidine, tetrahydrofuran, tetrahydrothiophene, dihydropyridine, tetrahydropyridine, piperidine, 1,3-dioxolane, 2-imidazoline, imidazolidine, 4,5-dihydro-1,3-oxazol, 1,3-oxazolidine, 4,5-dihydro-1,3-thiazole, 1,3-thiazolidine, perhydro-1,4-dioxane, piperazine, perhydro-1,4-oxazine (morpholine), perhydro-1,4-thiazine (thiomorpholine), perhydroazepine, indoline, isoindoline, 1,2,3,4-tetrahydroquinoline, and 1,2,3,4-tetrahydroisoquinoline, wherein said cyclic

group is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

- 5) $-(C_6-C_{14})$ -aryl, wherein aryl is chosen from the group phenyl, naphthyl, biphenyl, fluorenyl and anthracenyl and is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} , or
- 6) $-(C_6-C_{14})$ -heteroaryl, wherein heteroaryl is chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, 1,4-diazepine, indole, isoindole, benzofuran, benzothiophene, 1,3-benzodioxole, indazole, chromane, benzimidazole, benzoxazole, benzothiazole, quinoline, isoquinoline, isochromane, cinnoline, quinazoline, quinoxaline, phthalazine, pteridine, pyridyl, pyridopyridines, pyridoimidazoles, pyridopyrimidines and purine, wherein said heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,

in all its stereoisomeric forms and mixtures thereof in any ratio, and its physiologically tolerable salts.

9. The compound of claim 1, wherein

R^0 is phenyl, wherein phenyl is unsubstituted or mono- or disubstituted independently of one another by R^2 , or

pyridyl, wherein pyridyl is unsubstituted or mono-, disubstituted independently of one another by R^2 ,

R^2 is chlorine,

Q is a direct bond

Q' is -O-,

X is ethylene,

W is phenyl or pyridyl, wherein W is unsubstituted or mono-, di- or trisubstituted independently of one another by R^1 ,

provided that Q' and U are in a 1,2- or 1,3- substitution relationship with respect to each other and the 2 position is unsubstituted;

R¹ is halogen, -NO₂, -CN, -NH₂, (C₁-C₄)-alkylamino-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -OH, -SO₂-NH₂, (C₁-C₄)-alkyloxy-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, phenyl, wherein phenyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, (C₁-C₄)-alkyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, (C₁-C₄)-alkylsulfonyl-, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, bis[(C₁-C₄)-alkyl]amino, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -C(O)-NH₂, -C(O)-OH, -C(O)-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -C(O)-NH-(C₁-C₄)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -C(O)-NH-[(C₁-C₄)-alkyl]₂, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -C(NH)-NH₂, ureido, -(C₁-C₄)-alkylthio, wherein alkylthio is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, or R¹¹R¹²N-,

R¹¹ and R¹² together with the nitrogen atom to which they are bonded form a residue chosen from the group pyridine, phenyl, pyrazine, pyrimidine, pyran, triazole, tetrahydropyridine, pyrrolidine, tetrazole, imidazole, imidazolin, furopyridine, cyclic guanidinium, pyrrolopyridine, and oxadiazole,

R¹³ is halogen, -CN, -(C₁-C₄)-alkyl, -(C₁-C₄)-alkyloxy, -CF₃, -C(O)-NH₂ or -NH₂,

R¹⁰ is hydrogen atom or methyl,

U is -(CH₂)_m-C(O)-NR¹⁰-(CH₂)_n, wherein n is zero, 1 or 2, m is zero or 1,

R⁴ and R⁵ are independently of one another identical or different and are hydrogen atom, -(C₁-C₆)-alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, -(C₆-C₁₄)-phenyl-(C₁-C₄)-alkyl-, wherein alkyl and phenyl independently from one another are unsubstituted or mono-, di- or trisubstituted by R¹³, -(C₆-C₁₄)-phenyl-, wherein phenyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R¹³, heteroaryl chosen from the

group pyridine, pyrazine, pyrimidine, pyran, triazole, tetrahydropyridine, pyrrolidine, tetrazole, imidazole, imidazolin, furopyridine, cyclic guanidinium, pyrrolopyridine, and oxadiazole, wherein heteroaryl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} , or

R^4 and R^5 together with the nitrogen atom to which they are bonded form a residue chosen from the group aziridine, oxirane, azetidine, pyrrole, furan, thiophene, dioxole, imidazole, pyrazole, oxazole, isoxazole, thiazole, isothiazole, 1,2,3-triazole, 1,2,4-triazole, tetrazole, pyridine, pyran, thiopyran, pyridazine, pyrimidine, pyrazine, 1,2-oxazine, 1,3-oxazine, 1,4-oxazine, 1,2-thiazine, 1,3-thiazine, 1,4-thiazine, 1,2,3-triazine, 1,2,4-triazine, 1,3,5-triazine, azepine, 1,2-diazepine, 1,3-diazepine, and 1,4-diazepine, wherein said residue is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{13} ,

G is a direct bond, $-(CH_2)_m$, $-(CH_2)_m-C(O)-NR^{10}-(CH_2)_n$, $-(CH_2)_m-C(O)-(CH_2)_n$, $-(CH_2)_m-NR^{10}-C(O)-NR^{10}-(CH_2)_n$, $-(CH_2)_m-NR^{10}-C(O)-(CH_2)_n$, $-(CH_2)_m-SO_2-NR^{10}-(CH_2)_n$ or $-(CH_2)_m-NR^{10}-SO_2-(CH_2)_n$, wherein n, m, and R^{10} are as defined above

V is tetrahydropyridine, piperidine, phenyl, or piperazine, wherein said groups are unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} .

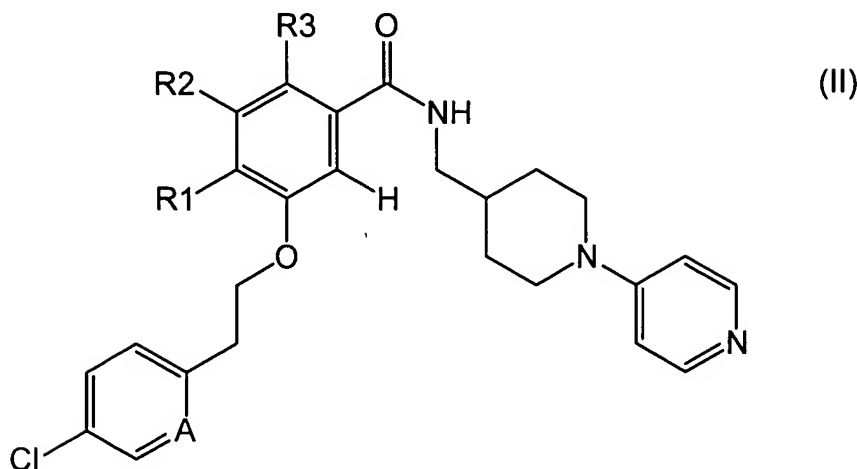
R^{14} is halogen, -OH, $-NR^4R^5$, =O, $-(C_1-C_4)$ -alkyl, $-(C_1-C_4)$ -alkoxyl, $-C(O)-OH$, -CN, $-C(O)-O-(C_1-C_4)$ -alkyl, $-C(O)-NR^4R^5$, $-(C_1-C_8)$ -alkylsulfonyl, $-C(O)-NH_2$, $-SO_2-NR^4R^5$, $-C(O)-NH-(C_1-C_8)$ -alkyl, $-C(O)-NH-[(C_1-C_8)$ -alkyl]₂, wherein R^4 or R^5 are as defined above, and

M is

- 1) a hydrogen atom,
- 2) $-(C_1-C_4)$ -alkyl, wherein alkyl is unsubstituted or mono-, di- or trisubstituted independently of one another by R^{14} ,
- 3) $-C(O)-NR^4R^5$, or
- 4) or a residue chosen from the group pyridine, phenyl, pyrazine, pyrimidine, pyran, triazole, tetrahydropyridine, pyrrolidine, tetrazole, imidazole, imidazolin, furopyridine, cyclic guanidinium, pyrrolopyridine, and oxadiazole,

in all its stereoisomeric forms and mixtures thereof in any ratio, and its physiologically tolerable salts.

10. The compound of claim 1, comprising



wherein A is carbon or nitrogen, wherein the carbon can be unsubstituted or substituted by Cl, F, or Br, and

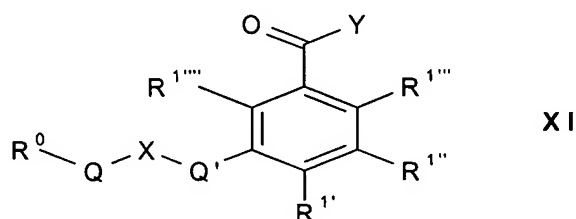
R1, R2, and R3 independent from each other are hydrogen, F, Cl, -O-CH₃, -CH₃,

-C(O)-N(CH₂-CH₃)₂, -C(O)-NH₂, or -C(O)-NH-CH₂-piperidine-pyridine;

and all stereoisomeric forms and mixtures thereof in any ratio, and all physiologically tolerable salts thereof.

11. A process for the preparation of the compound of claim 1, wherein W is phenyl and U is -(CH₂)₀-C(O)NR¹⁰-(CH₂)₁-, comprising

a) linking a compound of the formula XI,



wherein R⁰, Q, Q' and X are as defined in claim 1, are precursor groups thereof, or are protected by protective groups R^{1'}, R^{1''}, R^{1'''} and R^{1''''}, which protective groups are

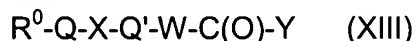
independently from each other a hydrogen atom; R^1 , which is as defined in claim 1; a precursor group; or protective group; and Y is a nucleophilically substitutable leaving group or a hydroxyl group,

with a compound of the formula XII



wherein R^{10} , V, G and M are as defined in claim 1, or are precursor groups thereof, or

b) reacting the compound of formula XII with a compound of the formula XIII



wherein R^0 , Q, Q', X, W and Y are as defined in claim 1, or are precursor groups thereof, and Y is a nucleophilic group or a hydroxyl group.

12. The process of claim 11, wherein R^{10} , V, G and M, or the precursor groups thereof, are protected by protective groups.

13. The process of claim 11, wherein R^0 , Q, Q', X, W and Y, or the precursor groups thereof, are protected by protective groups.

14. The process of claim 11, wherein Y is attached to a polystyrene resin.

15. A pharmaceutical preparation, comprising at least one compound of claim 1.

16. A pharmaceutical preparation, comprising at least one physiologically tolerable salt of a compound of claim 1.

17. A pharmaceutical preparation comprising at least one compound of claim 1, and a pharmaceutically acceptable carrier.

18. A method of modulating blood coagulation of fibrinolysis comprising administering one or more of the compounds of claim 1 in a pharmaceutical preparation to a subject to inhibit factor Xa, factor VIIa, or a combination thereof.

19. The method of claim 18, wherein the compound is administered to treat or prevent blood coagulation, inflammatory response, fibrinolysis, cardiovascular disorders, thromboembolic diseases, restenoses, abnormal thrombus formation, acute myocardial infarction, unstable angina, acute vessel closure associated with thrombolytic therapy, thromboembolism, percutaneous, pathologic thrombus formation occurring in the veins of the lower extremities following abdominal, knee and hip surgery, transluminal coronary angioplasty, transient ischemic attacks, stroke, disseminated systemic intravascular coagulopathy occurring in vascular systems during septic shock, pulmonary thromboembolism, viral infections or cancer, intravascular coagulopathy occurring in vascular systems during septic shock, coronary heart disease, myocardial infarction, angina pectoris, vascular restenosis, adult respiratory distress syndrome, multi-organ failure, stroke and disseminated intravascular clotting disorder, or thromboses.

20) The method of claim 19, wherein the compound is used to treat restenosis following angioplasty-like PTCA.

21) The method of claim 19, wherein the compound is used to treat deep vein and proximal vein thrombosis occurring following surgery.